

# Non-technical soil descriptions for Summit Soil Survey

## 101—Agassiz-rock outcrop complex, 30 to 70 percent slopes.

Agassiz, about 60 percent, is a shallow, somewhat excessively drained, moderately permeable soil on mountain slopes under sagebrush and grasses. Typically it is neutral very cobbly loam over limestone bedrock at 10 to 20 inches. Precipitation is 16 to 22 inches, frost-free period is 60 to 90 days, and capability rating is 7e nonirrigated.

Rock outcrop, about 20 percent, is on ridges and escarpments.

102—Ant Flat loam, 2 to 8 percent slopes is a very deep, well drained, slowly permeable soil on fan remnants under sagebrush and grasses or cropland. Typically it is neutral loam about 13 inches thick over clay loam or clay about 17 inches thick over moderately alkaline clay loam to 60 inches or more. Precipitation is 16 to 22 inches, frost-free period is 60 to 90 days, and capability rating is 3e irrigated and nonirrigated.

103—Ant Flat loam, 8 to 15 percent slopes is a very deep, well drained, slowly permeable soil on fan remnants under sagebrush and grasses or cropland. Typically it is neutral loam about 13 inches thick over clay loam or clay about 17 inches thick over moderately alkaline clay loam to 60 inches or more. Precipitation is 16 to 22 inches, frost-free period is 60 to 90 days, and capability rating is 4e irrigated and nonirrigated.

104—Ant Flat loam, 15 to 30 percent slopes is a very deep, well drained, slowly permeable soil on fan remnants under sagebrush and grasses. Typically it is neutral loam about 13 inches thick over clay loam or clay about 17 inches thick over moderately alkaline clay loam to 60 inches or more. Precipitation is 16 to 22 inches, frost-free period is 60 to 90 days, and capability rating is 6e nonirrigated.

## 105—Ant Flat-Henefer-Skutum complex, 8 to 30 percent slopes.

Ant Flat, about 40 percent, is a very deep, well drained, slowly permeable soil on mountain slopes under sagebrush and grasses. Typically it is neutral loam about 13 inches thick over clay loam or clay about 17 inches thick over moderately alkaline clay loam to 60 inches or more. Precipitation is 16 to 22 inches, frost-free period is 60 to 90 days, and capability rating is 6e nonirrigated.

Henefer, about 30 percent, is a very deep, well drained, slowly permeable soil on mountain slopes under oak brush. Typically it is neutral gravelly loam about 12 inches thick over cobbly clay or clay loam about 18 inches thick over neutral or slightly alkaline very cobbly or gravelly sandy clay loam to 60 inches or more. Precipitation is 16 to 22 inches, frost-free period is 60 to 90 days, and capability rating is 6e nonirrigated.

Skutum, about 20 percent, is a deep, well drained, slowly permeable soil on mountain slopes under aspen. Typically it is neutral loam about 17 inches thick over gravelly clay or clay loam about 31 inches thick over gravelly sandy loam over sandstone bedrock at 40 to 60 inches. Precipitation is 22 to 35 inches, frost-free period is 20 to 60 days, and capability rating is 6e nonirrigated.

106—Avoub cobbly loam, 2 to 15 percent slopes is a moderately deep, well drained, moderately slowly permeable soil on mountain slopes under sagebrush and grasses. Typically it is slightly acid cobbly loam about 6 inches thick over slightly acid or neutral gravelly clay loam about 17 inches thick over neutral very cobbly loam over andesite bedrock at 20 to 40 inches. Precipitation is 16 to 22 inches, frost-free period is 60 to 90 days, and capability rating is 6s nonirrigated.

107—Ayoub-Dunford-Melling complex, 15 to 30 percent slopes.

Ayoub, about 40 percent, is a moderately deep, well drained, moderately slowly permeable soil on mountain slopes under sagebrush and grasses. Typically it is slightly acid cobbly loam about 6 inches thick over slightly acid to neutral gravelly clay loam about 17 inches thick over neutral very cobbly loam over andesite bedrock at 20 to 40 inches. Precipitation is 16 to 22 inches, frost-free period is 60 to 90 days, and capability rating is 6e nonirrigated.

Dunford, about 20 percent, is a moderately deep, well drained, moderately slowly permeable soil on mountain slopes under oak brush. Typically it is neutral cobbly loam about 10 inches thick over gravelly clay loam over andesite bedrock at 20 to 40 inches. Precipitation is 16 to 22 inches, frost-free period is 60 to 90 days, and capability rating is 6e nonirrigated.

Melling, about 20 percent, is a shallow, well drained, moderately slowly permeable soil on mountain slopes under sagebrush and grasses. Typically it is neutral extremely stony loam over very cobbly clay loam over andesite bedrock at 10 to 20 inches. Precipitation is 16 to 22 inches, frost-free period is 60 to 90 days, and capability rating is 7s nonirrigated.

108—Ayoub-Dunford-Melling complex, 30 to 60 percent slopes.

Ayoub, about 40 percent, is a moderately deep, well drained, moderately slowly permeable soil on mountain slopes under sagebrush and grasses. Typically it is slightly acid cobbly loam about 6 inches thick over slightly acid to neutral gravelly clay loam about 17 inches thick over neutral very cobbly loam over andesite bedrock at 20 to 40 inches. Precipitation is 16 to 22 inches, frost-free period is 60 to 90 days, and capability rating is 7e nonirrigated.

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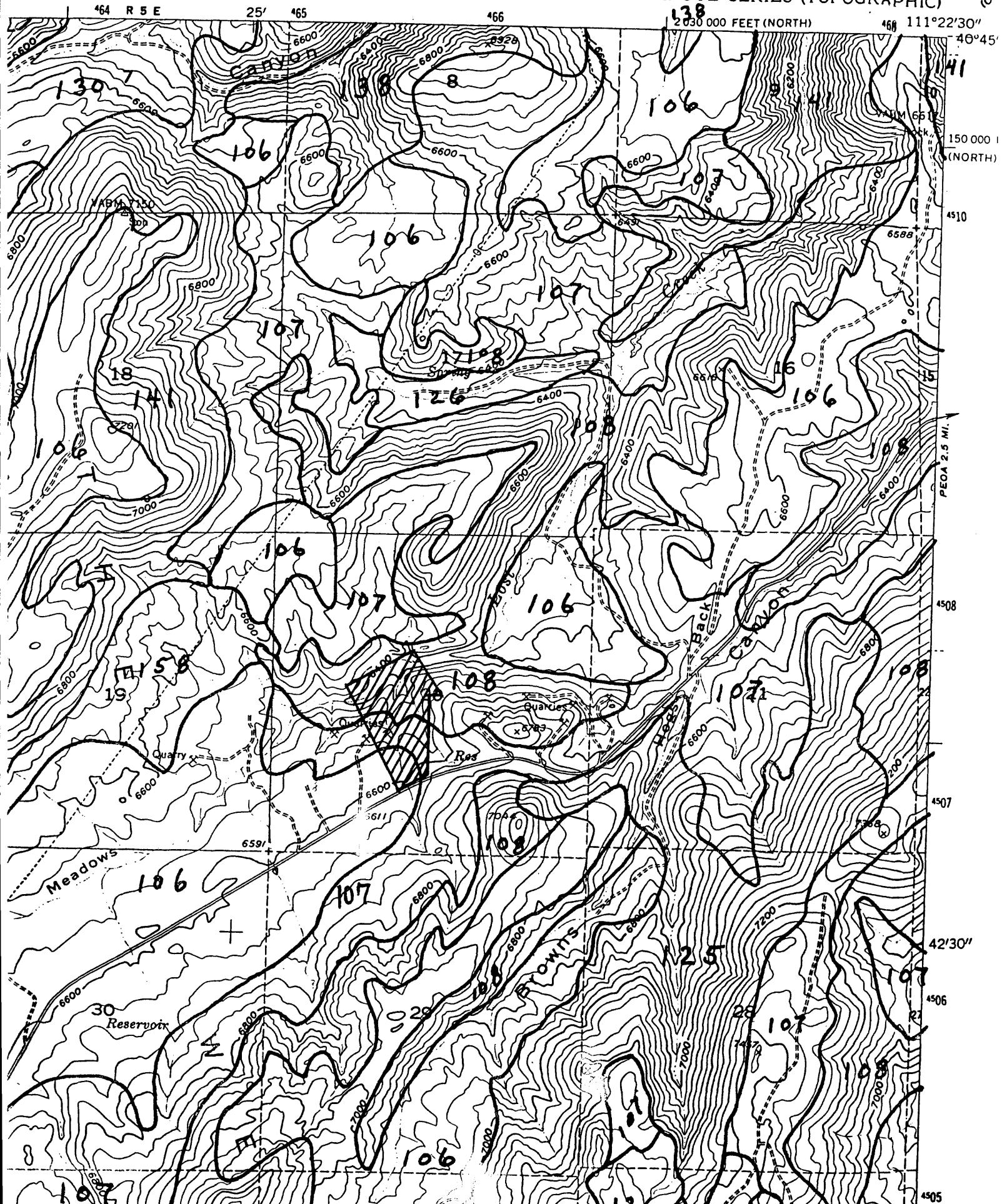
109—Cluff loam, 8 to 30 percent slopes, is a deep, well drained, slowly permeable soil on mountain slopes under mixed conifer. Typically it is slightly acid loam over gravelly loam about 9 inches thick over very gravelly loam about 7 inches thick over very cobbly clay loam about 4 inches thick over very cobbly clay over conglomerate bedrock at 40 to 60 inches. Precipitation is 22 to 35 inches, frost-free period is 20 to 60 days, and capability rating is 6e nonirrigated.

110—Cluff loam, 30 to 60 percent slopes, is a deep, well drained, slowly permeable soil on mountain slopes under mixed conifer. Typically it is slightly acid loam over gravelly loam about 9 inches thick over very gravelly loam about 7 inches thick over very cobbly clay loam about 4 inches thick over very cobbly clay over conglomerate bedrock at 40 to 60 inches. Precipitation is 22 to 35 inches, frost-free period is 20 to 60 days, and capability rating is 7e nonirrigated.

111—Crandall gravelly loam, 2 to 8 percent slopes, is a deep, well drained, moderately slowly permeable soil on mountain slopes under grasses and forbs. Typically it is neutral gravelly loam about 14 inches thick over very cobbly clay loam over slightly alkaline very cobbly loam over conglomerate bedrock at 40 to 60 inches. Precipitation is 22 to 35 inches, frost-free period is 20 to 60 days, and capability rating is 6s nonirrigated.

Appendix I  
PARK CITY EAST QUADRANGLE  
UTAH.

7.5 MINUTE SERIES (TOPOGRAPHIC)



# Soil Test Report

and

## Fertilizer Recommendations

USU Analytical Labs

Utah State University  
Logan, Utah 84322-4830  
(435) 797-2217  
(435) 797-2117 (FAX)

Appendix 1

Date Received: 10/13/98

Date Completed: 10/16/98

Name: Lon Thomas  
Address: American Stone  
4040 S 300 W  
Salt Lake City UT 84107

County: Salt Lake

Lab Number: 98011512

Grower's Comments:

Acres in Field:

Identification: Peoa

Crop to be Grown: Dryland Pasture

Soil Test Results		Interpretations	Recommendations
Texture	Loam		
Lime	+	Normal	
pH	7.2	Normal	
Salinity - ECe mmhos/cm	1.3		
Phosphorus - P ppm	23		0 lbs P2O5/A
Potassium - K ppm	269		0 lbs K2O/A
Nitrate-Nitrogen - N ppm			40-60 lbs N/A
Zinc - Zn ppm			
Iron - Fe ppm			
Copper - Cu ppm			
Manganese - Mn ppm			
Sulfate-Sulfur - S ppm			
SAR	1.22	Soil Not Sodic	
Organic Matter %	3.57		

### Notes

> 2mm = 14.0%

Total Nitrogen = 0.155 %

For further assistance, please see your County Agent --

## Nested Frequency of the Peoa Quarry (above)

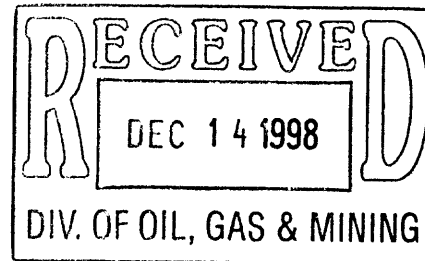
Date: 10/7/98		Examiner: Jim Spencer		Quadrat Size: 1= 5cmX5cm; 2= 25cmX25cm; 3= 25cmX50cm; 4=50cmX50cm																									
Transect Location: Peoa quarry (above)		Number of Quadrats: 20																											
Plant Species		Quadrats																				Frequency Summary by Plot Size							
																						1		2		3		4	
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	Hits	%Freq	Hits	%Freq	Hits	%Freq	Hits	%Freq
Epilobium brachycarpum		2	2																			0	0	0	0	2	10	2	10
Polygonum douglasii		2	2	2	3	2		1	2	2	2	2	2	1	2	2	1	2	2	2	2	3	15	18	90	19	95	19	95
Bromus tectorum		2	2	2	2	2	3	2	2	2	2	1	2	2	2	2	2	2		2	2	1	5	17	85	18	90	18	90
Poa bulbosa		2	1	2	4		2	2	2	2	1	2	2	2	2	2	2	2	1	2	3	3	15	16	80	17	85	18	90
Rosa woodsii		3	2	2	2	4					2	4	2	4		4		4		2		0	0	6	30	7	35	12	60
Bromus japonicus		3	2	3	2	2					2	3										0	0	4	20	7	35	7	35
Gutierrezia sarothrae		4	2	2		3	2	2	4	3		3					2		2	2		0	0	7	35	10	50	12	60
Verbena bracteata				4																		0	0	0	0	0	0	1	5
Arabis selbyi					3			4									4					0	0	0	0	1	5	3	15
Artemisia spicata						2	2	4	3	4	2				4	2		1	3	1		2	10	6	30	8	40	11	55
Artemisia tridentata																						0	0	0	0	0	0	2	10
Oreobanche corymbosa									3													0	0	0	0	1	5	1	5
Alyssum alysioides																						0	0	0	0	1	5	1	5
Elymus spicatus													2									0	0	1	5	1	5	1	5
Mahonia repens													4	1	2							1	5	2	10	2	10	3	15
Viguiera multiflora																2	3	2				0	0	2	10	3	15	3	15
Cover Summary																			4			0	0	0	0	0	0	1	5
		Vegetation: 16%					Litter: 40%					Bare Ground: 31%					Gravel/Stone: 13%												

m 1043/02

**Soil Test Report  
and  
Fertilizer Recommendations**

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Nitrate-Nitrogen - N    ppm			40-60 lbs N/A
Zinc - Zn            ppm			
Iron - Fe            ppm			
Copper - Cu          ppm			
Manganese - Mn       ppm			
Sulfate-Sulfur - S       ppm			
SAR	1.22	Soil Not Sodic	
Organic Matter        %	3.57		

**Notes**

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Total Nitrogen = 0.155 %

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## Appendix 2.





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